MODIS IOT Weekly Report

Mission Operations Days: 2000/155 to 2000/161

June 3, 2000 20:00:00 GMT to June 9, 2000 20:00:00 GMT

Terra Spacecraft and MODIS Instrument Status:

Terra (AM-1) is in Normal Mode MODIS is in Science Mode MODIS has no known Anomalies

Blackbody			A On; B Off	Nominal
Calibration Electronics			A On; B Off	Nominal
Control Processor			A On; B Off	Nominal
Door: Nadir		Unlatched, open	Nominal	
Space View			Unlatched, open	Nominal
Solar Diffuser			Unlatched, closed	Nominal
FDDI Formatter			A On; B off	Nominal
FIFO Memory			1 & 2 On; 3 & 4 Off	Nominal
Format Processor			A On; B off	Nominal
PC FPA			A On	Nominal
Power Supply: 1			On	Nominal
_	2		Off	Nominal
PV FPAs:	VIS		A On	Nominal
	NIR		A On	Nominal
	SMIR		A On	Nominal
	LWIF	₹	A On	Nominal
Radiative Cooler:				
Outgas Heaters			Off	Nominal
LWIR FPA Heater			On	Nominal
SMIR FPA Heater			Off	Nominal
Scan Assembly			A On; B off	Nominal
SDSM		Off	Nominal	
SRCA			Off	Nominal
Survival H	eaters:	PS1	Enabled	Nominal
		PS2	Enabled	Nominal
Timing Generator		A On; B Off	Nominal	
Flight Software		Rev BD	Nominal	
Inhibit Ids Set			None	Nominal
TMONs enabled			66,67	Nominal

This Week's Completed MODIS Activities:

Saturday, June 3, 2000

None

Sunday, June 4, 2000

None

Monday, June 5, 2000

157/10:44:50 ATC OA15 SD/SDSM Open

157/11:36:24 ATC OA19 SRCA Full Radiometric

157/12:00:00 ATC - Blackbody to 270K

157/12:23:43 ATC OA16 SD/SDSM Screened

Tuesday, June 6, 2000

158/06:00:00 ATC Blackbody to 280K

158/10:00:00 ATC Blackbody to 285K

158/12:00:00 ATC Blackbody to 290K

158/13:31:49 Real-time Set Blackbody duty cycle to 100%

158/14:00:00 ATC Blackbody to 295K

158/16:00:00 ATC Blackbody to 300K

158/18:00:00 ATC Blackbody to 315K

158/20:00:00 ATC Blackbody to 270K

158/20:22:23 Real-time Set Blackbody duty cycle to 33%

Wednesday, June 7, 2000

159/10:32:24 ATC OA16 SD/SDSM Screened

159/11:23:57 ATC OA23 SRCA Full Spatial

159/19:00:00 ATC Blackbody to 290K

Thursday, June 8, 2000

None

Friday, June 9, 2000

161/08:41:06 ATC OA16 SD/SDSM Screened

161/09:29:36 ATC OA22 SRCA Full Spectral, 30W part I

161/11:24:23 ATC OA22 SRCA Full Spectral, 30W part II

161/13:46:50 ATC OA22 SRCA Full Spectral, 10W part I

161/14:42:09 ATC OA22 SRCA Full Spectral, 10W part II

This Week's Scheduled MODIS Activities Not Completed:

None

Upcoming MODIS Events:

Saturday, June 10, 2000

None

Sunday, June 11, 2000

None

Monday, June 12, 2000

164/05:54:08 ATC OA15 SD/SDSM Open 164/12:29:39 ATC OA16 SD/SDSM Screened 164/20:02:00 ATC - Blackbody to 270K

Tuesday, June 13, 2000

165/14:00:00 ATC Blackbody to 315K

165/14:?? Real-time Set Blackbody duty cycle to 100%

165/21:00:00 ATC Blackbody to 270K

165/21:?? Real-time Set Blackbody duty cycle to 33%

Wednesday, June 14, 2000

166/?? ATC OA16 SD/SDSM Screened

166/19:00:00 ATC Blackbody to 290K

Thursday, June 15, 2000

None

Friday, June 16, 2000

168/?? ATC OA16 SD/SDSM Screened

Maneuvers:

Tue, June 20, 2000 – Drag Makeup Maneuver Wed, June 21, 2000 – MODIS Roll #1 (2000/173/21:50:10 – 21:56:40), roll degree = -18.0044 Wed, June 21, 2000 – MODIS Roll #2 (2000/173/23:28:43 – 23:35:13), roll degree = -17.4518 Wed, June 21, 2000 – MODIS Roll #3 (2000/174/01:07:16 – 01:13:46), roll degree = -16.9070

MODIS Anomalies:

None.

General Instrument Comments:

MODIS is in Science Mode on the A-side with the SVD and NAD open.

MODIS Telemetry Trends:

Telemetry is nominal.

Non-MODIS Significant Events:

Science Data Losses 159/20:00 – 160/20:00:

4,6362 CADUs of MODIS (equivalent to 31 sec. Day Mode) lost at 160/16:32:33z due to FOT Ops. Error. FOT failed to implement workaround for very high MODIS Buffer amount (86% full). Lockup loss was overwritten before it could be played back.

Additional setbacks from the Ampex tape drive anomalies at White Sands have resulted in numerous data processing backlogs. The following days are still being processed (in the order listed):

147-150, 131-136

Limited Life Item Status:

SRCA 10W Lamp #1: 166.7 of 500 hours SRCA 10W Lamp #2: 132.7 of 500 hours SRCA 10W Lamp #3: 141.9 of 500 hours SRCA 10W Lamp #4: 61.5 of 500 hours

SRCA 1W Lamp #1: 554.6 of 4000 hours SRCA 1W Lamp #2: 276.3 of 4000 hours

Solar Diffuser Door: 1363 of 3022 Movements Nadir Aperture Door: 532 of 1316 Movements Space View Door: 437 of 1316 Movements